

# USER MANUAL

OD310

MODEL : DCS-U3-6K



## 1. Overview

### 1.1 Purpose

The OD310 device is a communication-type modem device for vehicles.

It allows the door lock/unlock and emergency lights of the vehicle to be controlled by collecting the vehicle data such as the door open, locked, OBD CAN, Battery status, GPS coordinates, and receiving commands from the BLE, MODEM. It recollects vehicle data such as the door open status, locked, OBD CAN, Battery status, GPS coordinates and controls. It also transmits the collected Data to the outside via the modem.

### 1.2 Product Overview

- Dimension: 183mm(W) x 31.3mm(H) x 71mm(D)
- Maximum input voltage : DC +35V
- Operation input voltage : DC+12V
- Consumable current:
  - 140mA@14v on operation
  - 3mA@12V on non-operation
  - 2mA@10V on sleep mode
- Operating temperature range: -20°C to + 65°C
- Power Resource: Power supplied from vehicle' s battery by OBD (12V)
- Built-in battery: Li-ion Polymer Battery 1850mAh

### 1.3 Installation

The OD310 device is installed in the rear of the internal fuse box of the driver' s seat. Its distance from the human body is over 40Cm

## 1.4 SPECIFICATION

Class	Item	Specification of OD310
processor	Application Processor	STM32 ARM 32-bit Cortex M3
	Built-In Memory (ROM)	512KB
	Built-In Memory (RAM)	128KB
Memory	FRAM (Reservation data save, Vehicle ID save)	64Kbit
	Serial Flash(Firmware update)	1MByte
Sensor	Acceleration sensor	BMI 160
Button		Reset KEY
Modem	QUECTEL 4G/3G/2G Modem	EG21-G
Bluetooth	Bluetooth V4.0 (BLE)	BDE-BLEM201P
External interface	UART 2 EA	RFID & Touch keypad
	CAN Communication	1EA
	Status check input ports	4EA
	Control output ports	4EA
	Support power supply of external devices	12V-1A(for Start prevention relay)
	Start prevention control	Support

## 2.10 FCC/IC

FCC ID: 2BDBU-DCSU36K

Contains FCC ID: XMR201906EG21G

IC: 31548-DCSU36K

Contains IC : 10224A-201906EG21G

### FCC Part 15.19

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### FCC Part 15.21

Any changes or modifications (including the antennas) to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

### FCC RF Radiation Exposure Statement

This equipment complies with FCC RF Radiation exposure limits set forth for an uncontrolled environment.

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 40 cm between the radiator and your body.

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Modifications not expressly approved by the manufacturer could void your authority to operate the equipment under FCC rules.

#### ISED Warning Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISED RF Radiation Exposure Statement: This equipment complies with ISED RF Radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with a minimum distance of 40 cm between the radiator and your body.

RF du ISED d'exposition aux radiations: Cet équipement est conforme à l'exposition de ISED rayonnements RF limites établies pour un environnement non contrôlé. L'antenne pour ce transmetteur ne doit pas être même endroit avec d'autres émetteur sauf conformément à ISED procédures de produits Multi-émetteur.

Cet équipement doit être installé et utilisé avec une distance minimale de 40 cm entre le radiateur et votre corps.